

8/327525

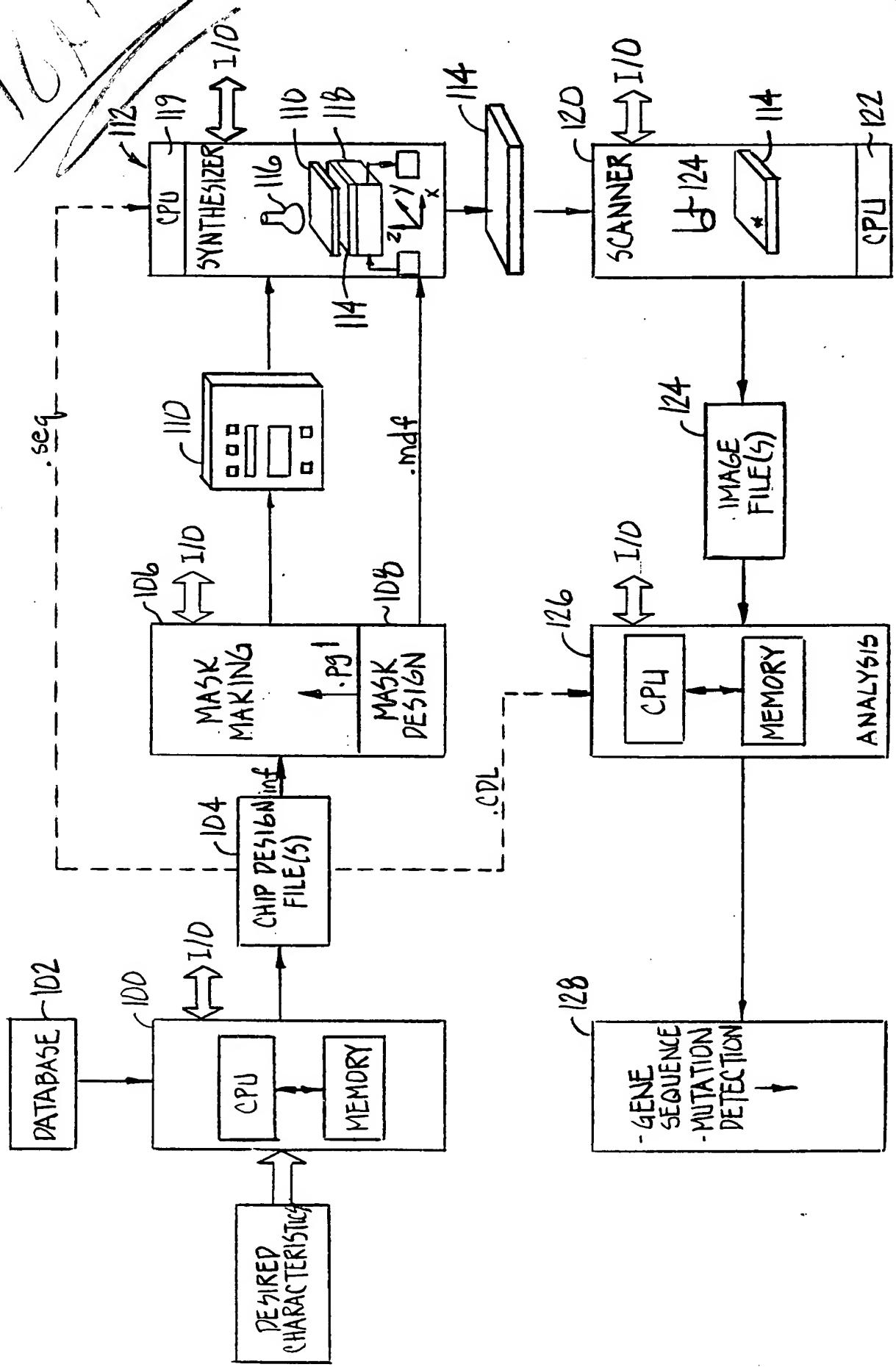


FIG. 1

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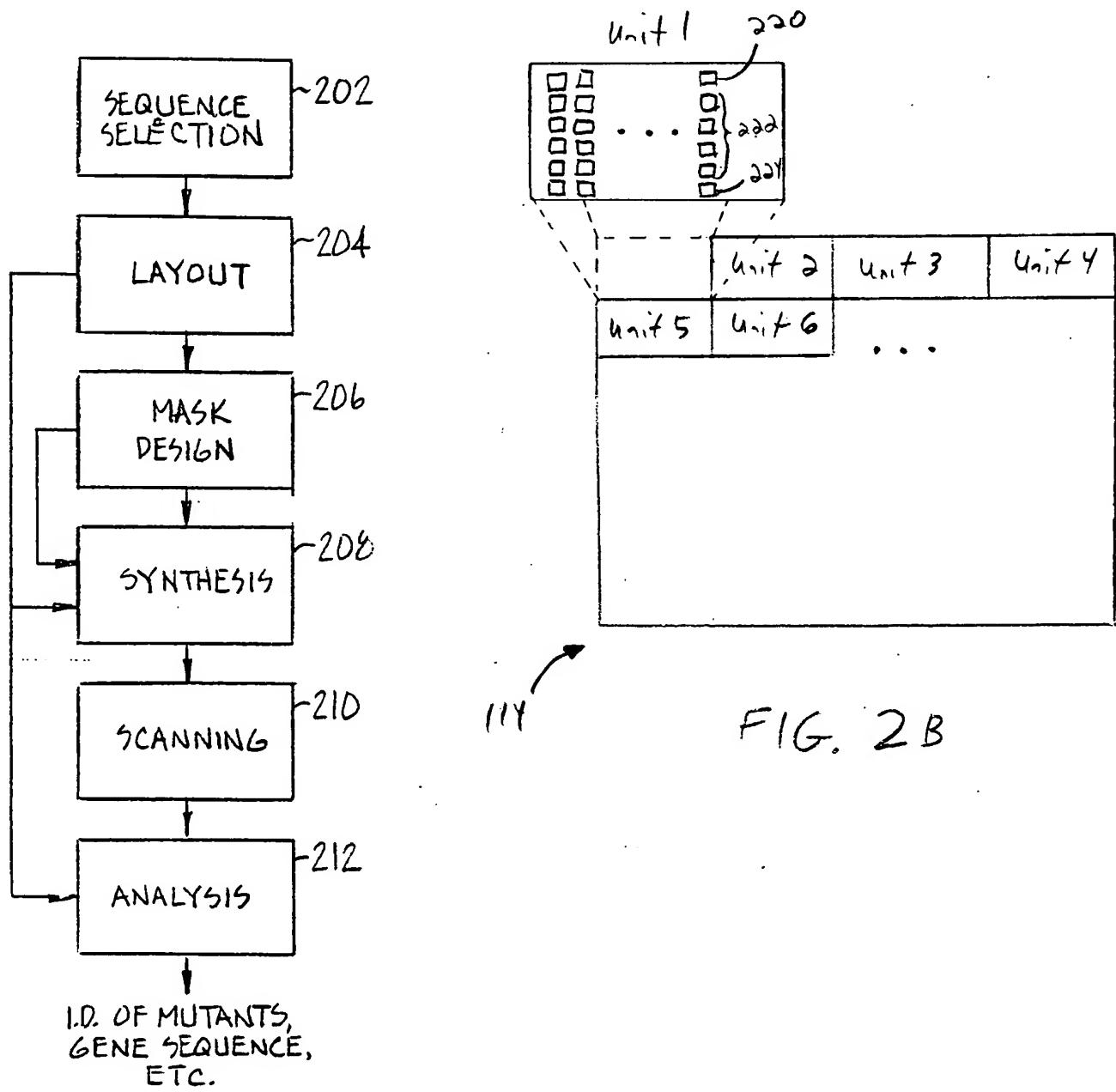
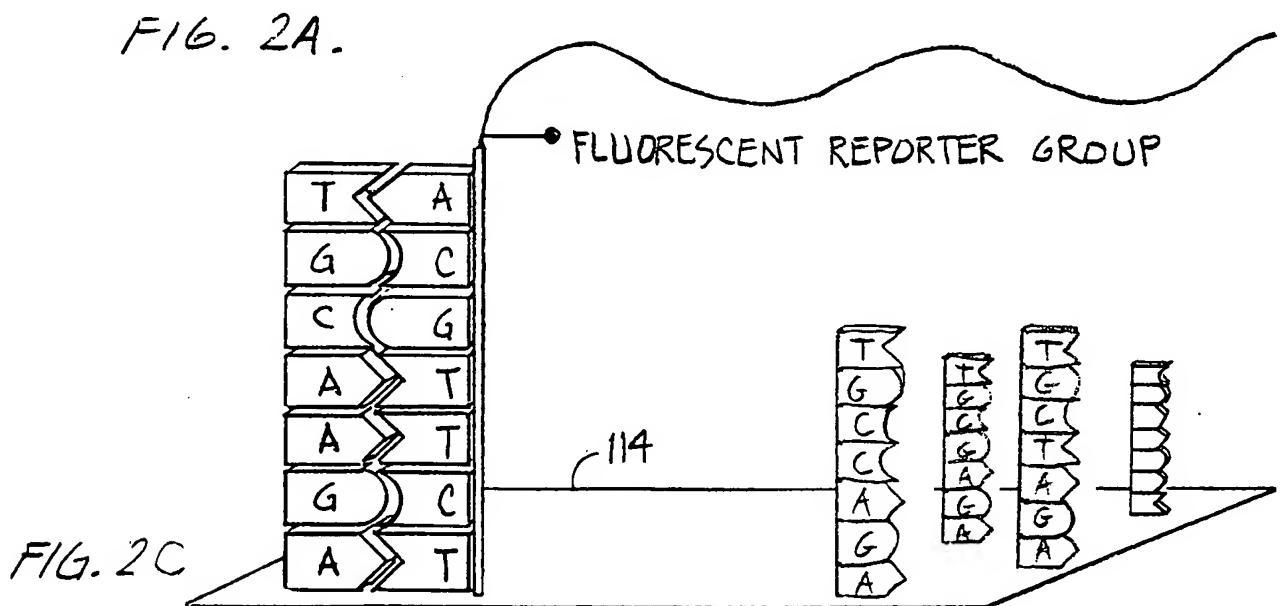


FIG. 2B

FIG. 2A.



Intensity Ratio
Method

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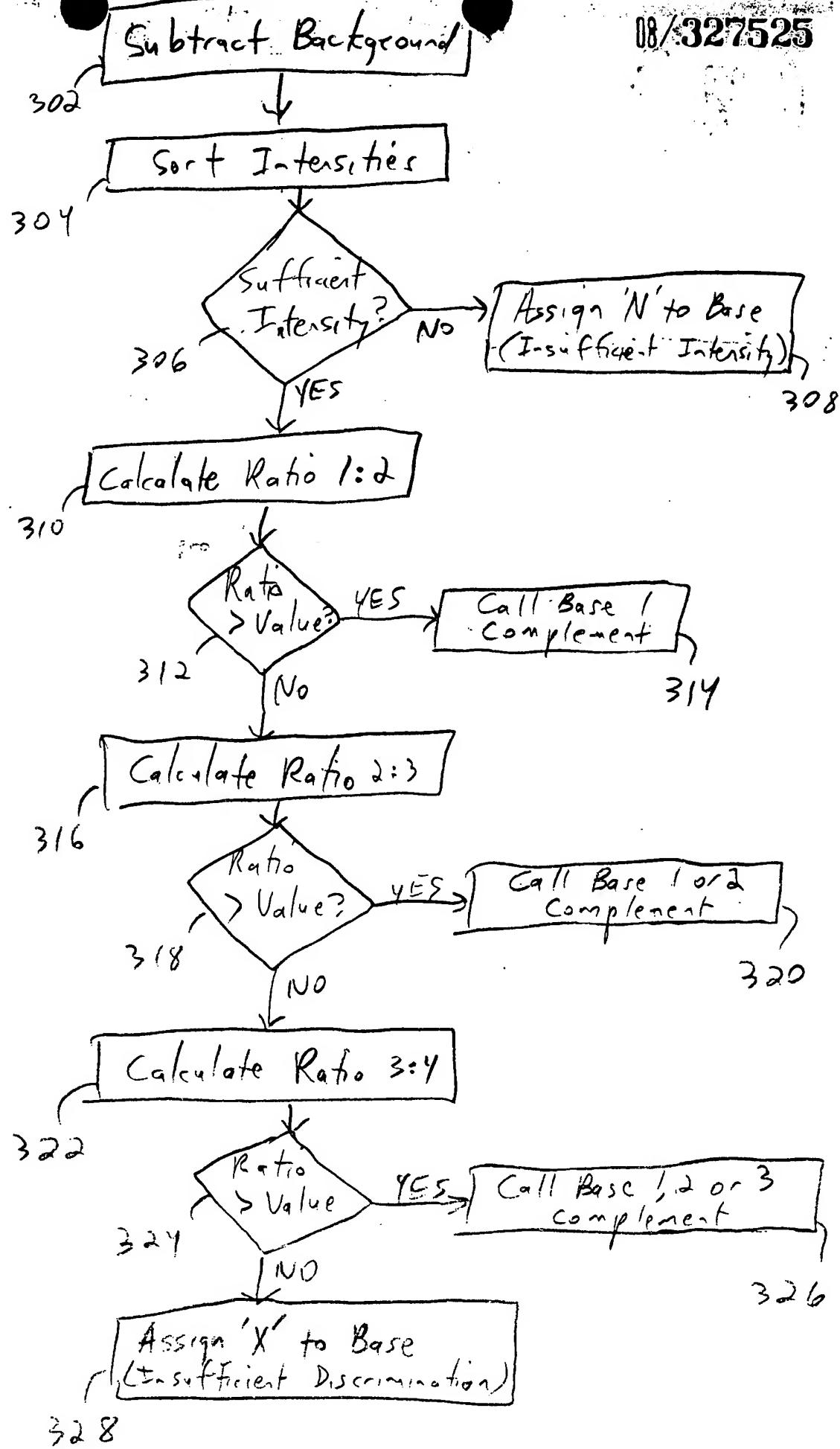


Fig. 3

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Subtract Background

Reference Method

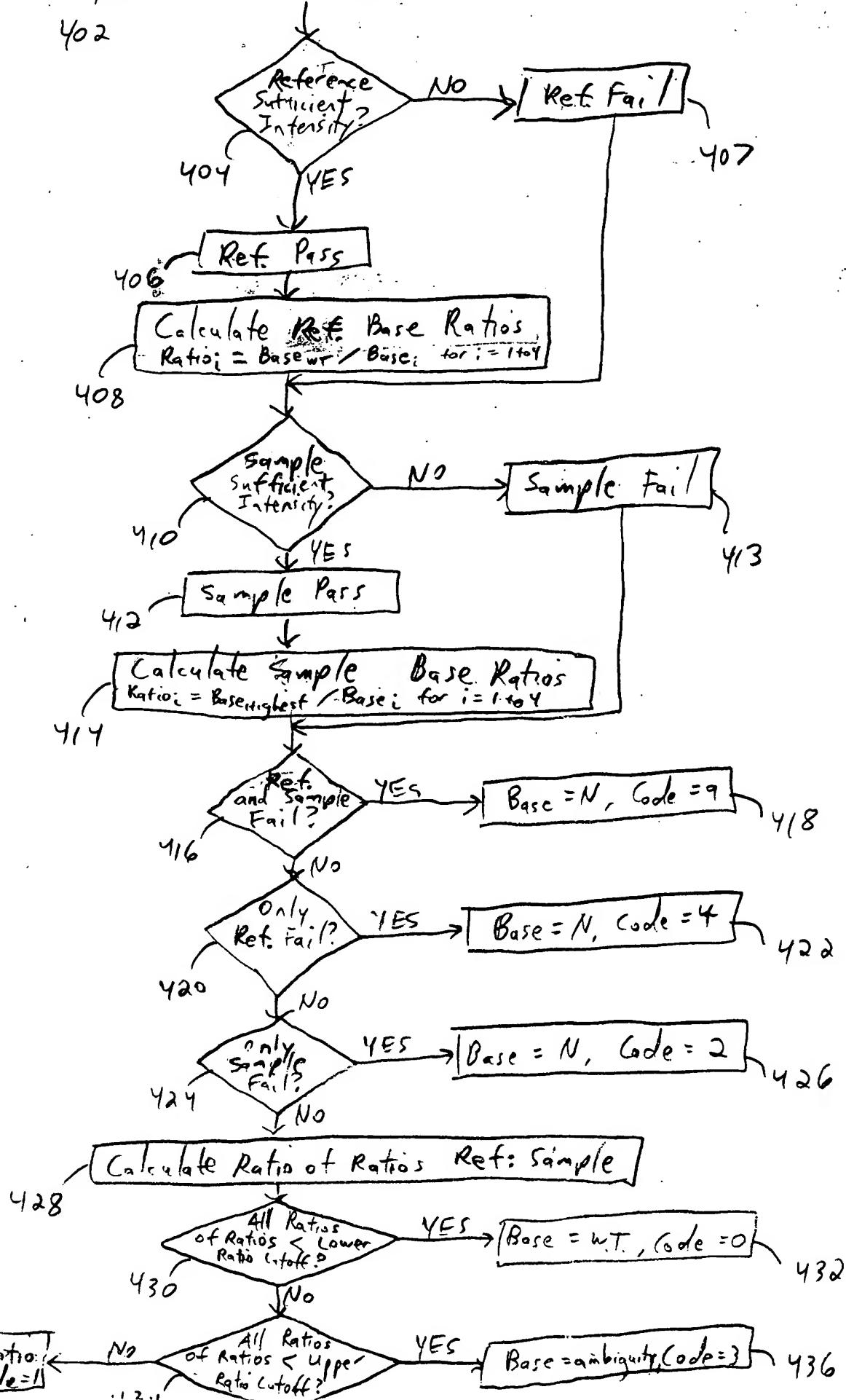


Fig. 1A

| Position | Reference | | | | | Sample | | | | | Ratio of Ratios | | | | | | |
|----------|-----------|-----|-----|-----|-----|--------|-----|-----|-----|-----|-----------------|-----|-----|-----|--------------------|----|----|
| | A/T | T/A | A/G | G/A | T/C | C/T | A/G | G/A | T/C | C/T | A/G | G/A | T/C | C/T | Base confidence | | |
| 463 | C | P | 7.2 | 9.9 | 1.0 | 5.6 | P | 6.4 | 2.3 | 1.0 | 14.5 | 1.1 | 4.3 | 1.0 | 0.4 | G | 1 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |

Fig. 4B

Subtract Background

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Reference
Method

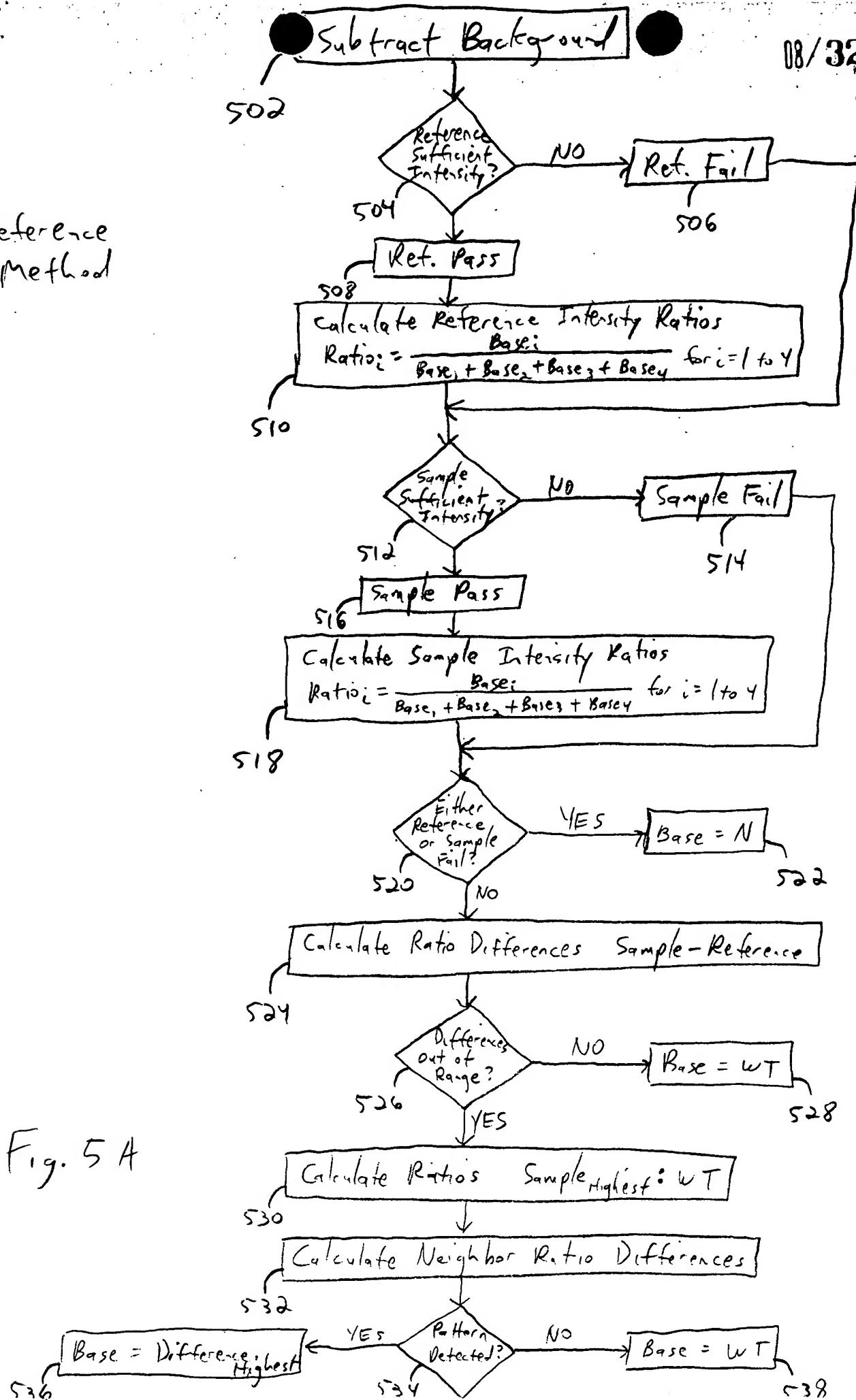


Fig. 5 A

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IS
501

| BCK SUBTRACTED INTENSITIES | | | | | | | | | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| rv090203.cg1 | -7 | -6 | -5 | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| Position: | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | |
| WildType: | A | A | A | C | C | A | A | T | C | C | A | C | A | T | C | A | | |
| Called: | A | A | A | C | C | A | A | T | C | C | A | C | A | T | C | M | | |
| a | 148 | 193 | 165 | 17 | 70 | 38 | 282 | 388 | 97 | 31 | 18 | 158 | 15 | 223 | 178 | 126 | 154 | |
| c | 57 | 100 | 42 | 167 | 345 | 278 | 38 | 99 | 139 | 249 | 249 | 13 | 244 | 28 | 257 | 250 | 175 | |
| g | 26 | 32 | 20 | 16 | 65 | 17 | 27 | 107 | 100 | 13 | 9 | 11 | 10 | 30 | 142 | 59 | 55 | |
| t | 9 | 15 | 10 | 6 | 41 | 14 | 27 | 70 | 261 | 6 | 2 | 1 | 7 | 16 | 320 | 52 | 37 | |
| Σ | 240 | 340 | 238 | 207 | 522 | 347 | 374 | 671 | 598 | 298 | 279 | 182 | 276 | 298 | 896 | 487 | 421 | |
| wIR | 148 | 193 | 165 | 167 | 345 | 278 | 282 | 388 | 261 | 249 | 249 | 158 | 244 | 223 | 320 | 250 | 154 | |
| maxR | 148 | 193 | 165 | 167 | 345 | 278 | 282 | 388 | 261 | 249 | 249 | 158 | 244 | 223 | 320 | 250 | 175 | |
| | | | | | | | | | | | | | | | | | | |
| mc090407.cg1 | | | | | | | | | | | | | | | | | | |
| Position: | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | |
| WildType: | A | A | A | C | C | C | A | A | T | C | C | A | C | A | T | C | A | |
| Called: | M | M | A | C | X | C | A | X | X | C | C | A | C | A | X | X | M | |
| a | 194 | 238 | 150 | 44 | 191 | 126 | 283 | 332 | 234 | 58 | 49 | 242 | 25 | 337 | 286 | 180 | 256 | |
| c | 209 | 291 | 74 | 202 | 337 | 277 | 74 | 199 | 175 | 259 | 288 | 27 | 376 | 85 | 379 | 324 | 234 | |
| g | 92 | 72 | 34 | 29 | 114 | 521 | 65 | 571 | 231 | 30 | 17 | 16 | 47 | 71 | 254 | 104 | 109 | |
| t | 25 | 39 | 16 | 11 | 98 | 29 | 68 | 205 | 267 | 11 | 8 | 5 | 23 | 57 | 427 | 97 | 85 | |
| Σ | 520 | 639 | 274 | 288 | 738 | 484 | 489 | 1307 | 906 | 357 | 362 | 291 | 472 | 529 | 1346 | 705 | 684 | |
| wIE | 194 | 238 | 150 | 202 | 337 | 277 | 283 | 332 | 267 | 259 | 288 | 242 | 376 | 337 | 427 | 324 | 256 | |
| maxE | 209 | 291 | 150 | 202 | 337 | 277 | 283 | 671 | 267 | 259 | 288 | 242 | 376 | 337 | 427 | 324 | 256 | |
| | | | | | | | | | | | | | | | | | | |
| wIE/wIR | 1.31 | 1.23 | 0.91 | 1.21 | 0.98 | 1.00 | 1.00 | 0.88 | 1.02 | 1.04 | 1.15 | 1.54 | 1.54 | 1.51 | 1.34 | 1.30 | 1.66 | |
| maxE/wIR | 1.42 | 1.51 | 0.91 | 1.21 | 0.98 | 1.00 | 1.00 | 1.48 | 1.02 | 1.04 | 1.15 | 1.54 | 1.54 | 1.51 | 1.34 | 1.30 | 1.66 | |
| $nI + n-r$ | 0.79 | -0.63 | 0.54 | -0.26 | 0.01 | 0.14 | 0.94 | 0.14 | -0.10 | -0.27 | 0.38 | 0.04 | 0.14 | -0.13 | -0.40 | | | |
| nI | 0.09 | -0.60 | 0.30 | -0.24 | 0.02 | 0.01 | 0.48 | -0.46 | 0.02 | 0.11 | 0.38 | 0.01 | -0.04 | -0.17 | -0.04 | | | |
| $n-r$ | 0.60 | -0.30 | 0.24 | -0.02 | -0.01 | -0.48 | 0.46 | -0.02 | -0.11 | -0.38 | -0.01 | 0.04 | 0.17 | 0.04 | -0.36 | | | |
| $nI d(n-r)$ | -0.90 | 0.54 | -0.25 | 0.01 | -0.48 | 0.94 | -0.48 | -0.10 | -0.27 | 0.38 | 0.04 | 0.14 | -0.13 | | | | | |
| $n-r d(nI)$ | -0.90 | 0.54 | -0.25 | 0.01 | -0.48 | 0.94 | -0.48 | -0.10 | -0.27 | 0.38 | 0.04 | 0.14 | -0.13 | | | | | |
| $[(nI) - (n-r)]$ | 0.29 | 0.07 | 0.22 | 0.02 | 0.49 | 0.02 | 0.44 | 0.13 | 0.50 | 0.39 | 0.03 | 0.21 | 0.21 | | | | | |
| $n+b-c$ | -2.10 | 1.01 | -0.73 | 0.00 | -1.44 | 1.88 | -1.40 | -0.33 | -1.03 | 0.36 | 0.06 | 0.08 | -0.48 | | | | | |
| SUM mI/ SUM wt intensities | 2.16 | 1.86 | 1.15 | 1.39 | 1.41 | 1.39 | 1.31 | 1.95 | 1.52 | 1.20 | 1.30 | 1.60 | 1.71 | 1.78 | 1.50 | 1.45 | 1.63 | |
| $nI + n/r$ | 2.50 | 1.46 | 2.18 | 2.04 | 2.05 | 1.61 | 2.77 | 2.04 | 1.71 | 1.89 | 2.17 | 2.03 | 2.22 | 1.88 | 1.86 | | | |
| $nI + n-r$ | 0.22 | -0.48 | 0.10 | 0.02 | 0.03 | -0.38 | 0.54 | -0.06 | -0.21 | -0.10 | 0.10 | 0.02 | 0.17 | -0.11 | -0.12 | | | |
| nI | -0.28 | -0.73 | 0.23 | 0.03 | -0.02 | -0.09 | 0.64 | -0.43 | -0.32 | 0.10 | 0.30 | 0.10 | 0.07 | -0.27 | -0.06 | | | |
| $n-r$ | 0.73 | -0.23 | -0.03 | 0.02 | 0.09 | -0.64 | 0.43 | 0.32 | -0.10 | -0.30 | -0.10 | -0.07 | 0.27 | 0.06 | -0.16 | | | |
| NORMALIZED INTENSITIES | | | | | | | | | | | | | | | | | | |
| WILDTYPE | | | | | | | | | | | | | | | | | | |
| A | 0.61 | 0.57 | 0.70 | 0.08 | 0.13 | 0.11 | 0.75 | 0.57 | 0.16 | 0.10 | 0.07 | 0.87 | 0.06 | 0.75 | 0.20 | 0.26 | 0.37 | |
| C | 0.24 | 0.29 | 0.18 | 0.81 | 0.66 | 0.80 | 0.10 | 0.16 | 0.23 | 0.83 | 0.90 | 0.07 | 0.88 | 0.09 | 0.29 | 0.51 | 0.42 | |
| G | 0.11 | 0.09 | 0.08 | 0.08 | 0.12 | 0.05 | 0.07 | 0.16 | 0.17 | 0.04 | 0.03 | 0.06 | 0.04 | 0.10 | 0.16 | 0.12 | 0.13 | |
| T | 0.04 | 0.04 | 0.04 | 0.03 | 0.08 | 0.04 | 0.07 | 0.12 | 0.44 | 0.02 | 0.01 | 0.01 | 0.03 | 0.05 | 0.36 | 0.11 | 0.09 | |
| MUTANT | | | | | | | | | | | | | | | | | | |
| a | 0.37 | 0.37 | 0.55 | 0.15 | 0.26 | 0.26 | 0.58 | 0.26 | 0.26 | 0.16 | 0.14 | 0.83 | 0.05 | 0.84 | 0.21 | 0.26 | 0.37 | |
| c | 0.40 | 0.45 | 0.27 | 0.71 | 0.46 | 0.57 | 0.15 | 0.16 | 0.19 | 0.72 | 0.80 | 0.09 | 0.80 | 0.12 | 0.28 | 0.48 | 0.34 | |
| g | 0.18 | 0.11 | 0.12 | 0.10 | 0.15 | 0.11 | 0.13 | 0.44 | 0.25 | 0.08 | 0.05 | 0.06 | 0.10 | 0.13 | 0.19 | 0.15 | 0.16 | |
| t | 0.05 | 0.08 | 0.08 | 0.04 | 0.13 | 0.08 | 0.14 | 0.16 | 0.29 | 0.03 | 0.02 | 0.02 | 0.05 | 0.11 | 0.32 | 0.14 | 0.12 | |
| MT - WT (NORMALIZED INTENSITIES) | | | | | | | | | | | | | | | | | | |
| Position: | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | |
| WildType: | A | A | A | C | C | A | A | T | C | C | A | C | A | T | C | A | | |
| Called: | M | M | A | C | X | C | A | X | X | C | C | A | C | A | X | X | M | |
| a | -0.24 | -0.20 | -0.15 | 0.07 | 0.12 | 0.15 | -0.18 | -0.32 | 0.09 | 0.06 | 0.07 | -0.04 | 0.00 | -0.11 | 0.01 | 0.00 | | |
| c | 0.17 | 0.16 | 0.09 | -0.10 | -0.20 | -0.23 | 0.05 | 0.00 | -0.04 | -0.11 | -0.10 | 0.03 | -0.08 | 0.03 | -0.01 | -0.05 | -0.07 | |
| g | 0.07 | 0.02 | 0.04 | 0.02 | 0.03 | 0.08 | 0.06 | 0.28 | 0.09 | 0.04 | 0.01 | 0.00 | 0.06 | 0.03 | 0.03 | 0.03 | 0.03 | |
| t | 0.01 | 0.02 | 0.02 | 0.01 | 0.05 | 0.02 | 0.07 | 0.04 | -0.14 | 0.01 | 0.01 | 0.02 | 0.05 | -0.04 | 0.03 | 0.04 | | |

Fig. 5 B

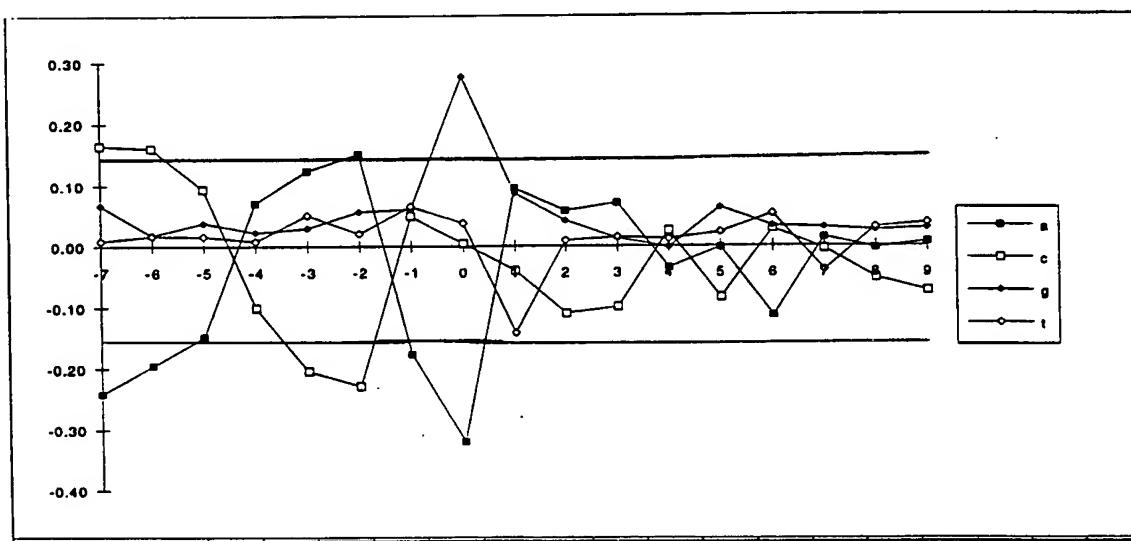


Fig. 5C

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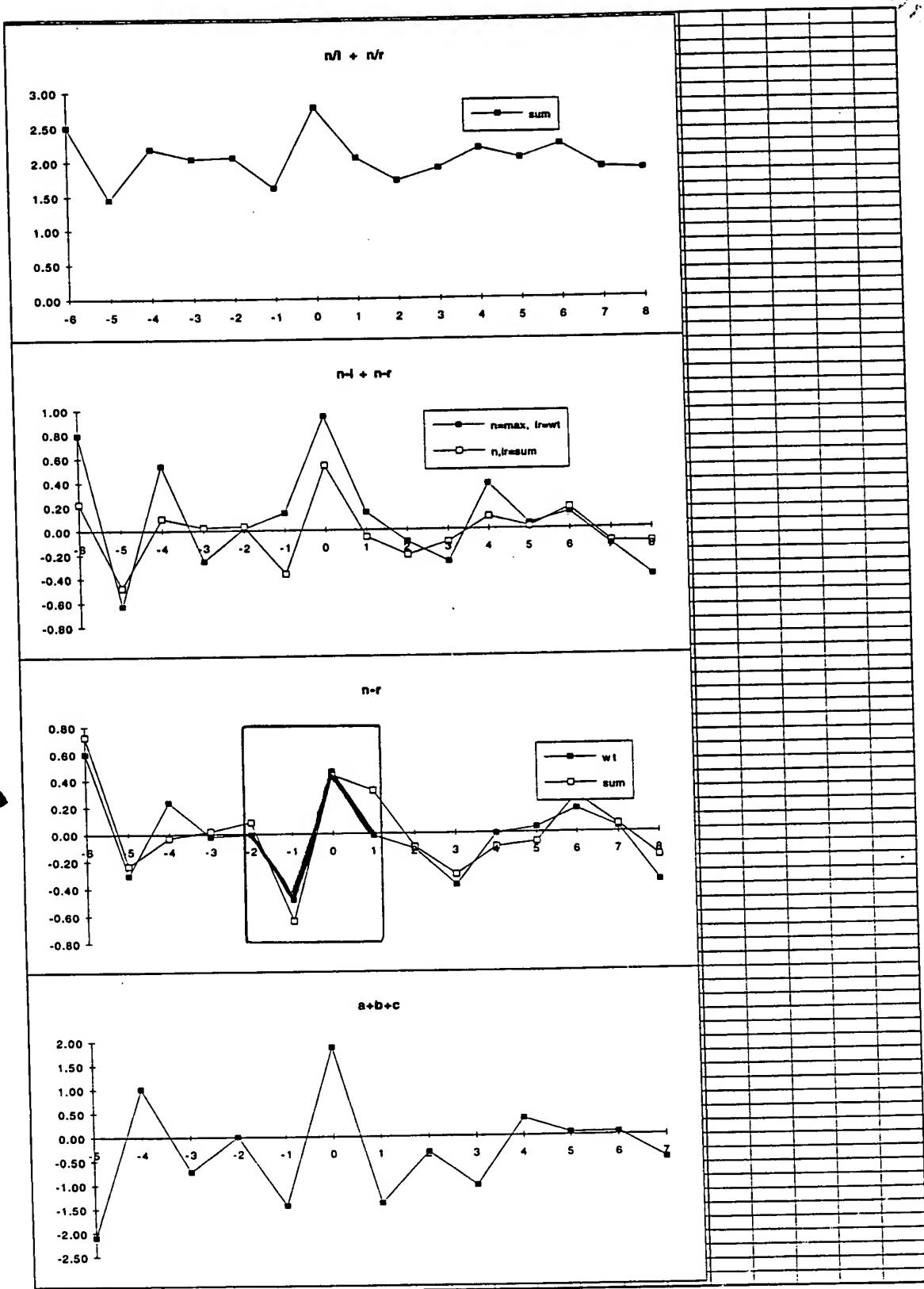


Fig. 5D

Statistical Method

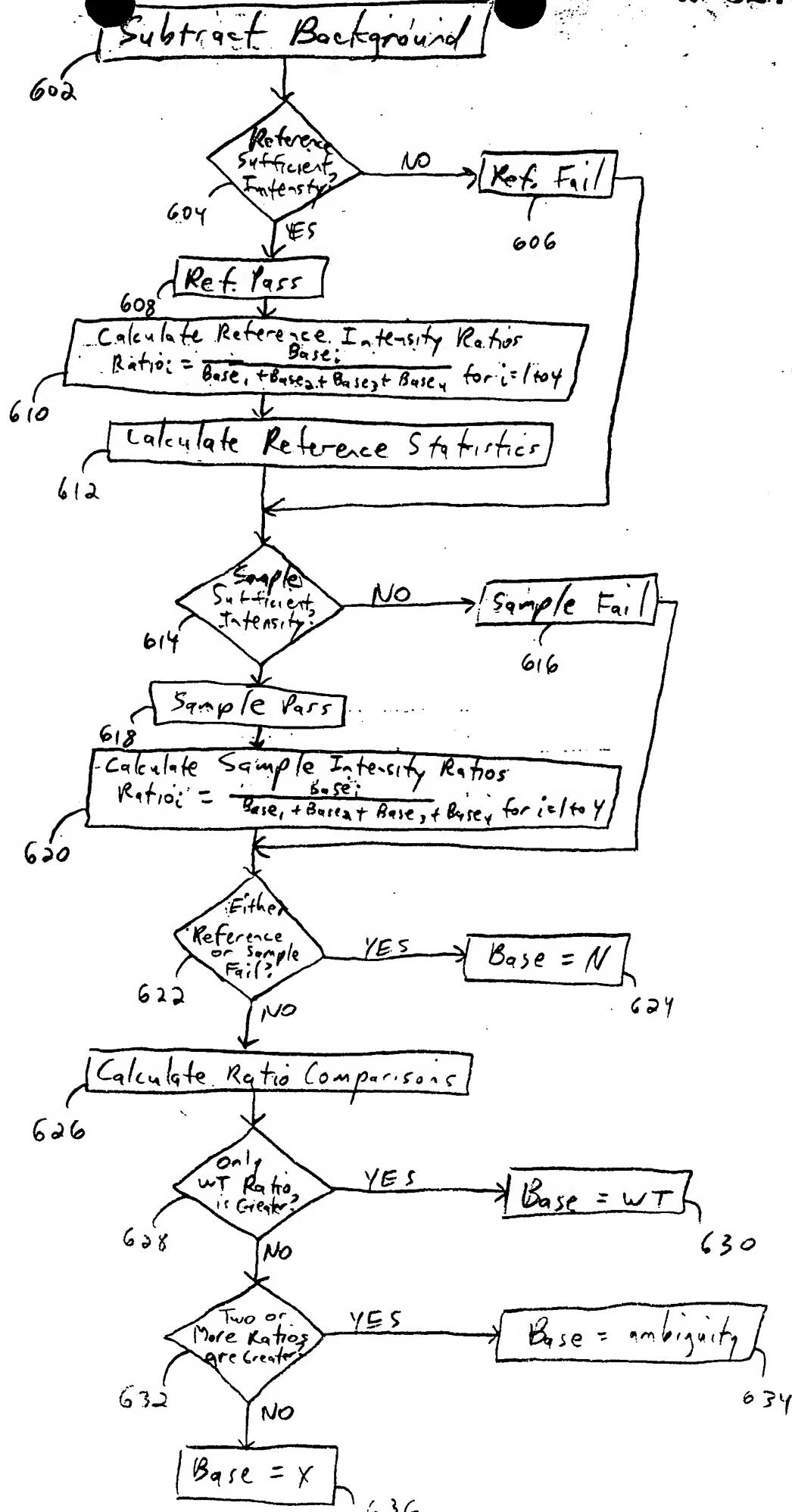


Fig 6

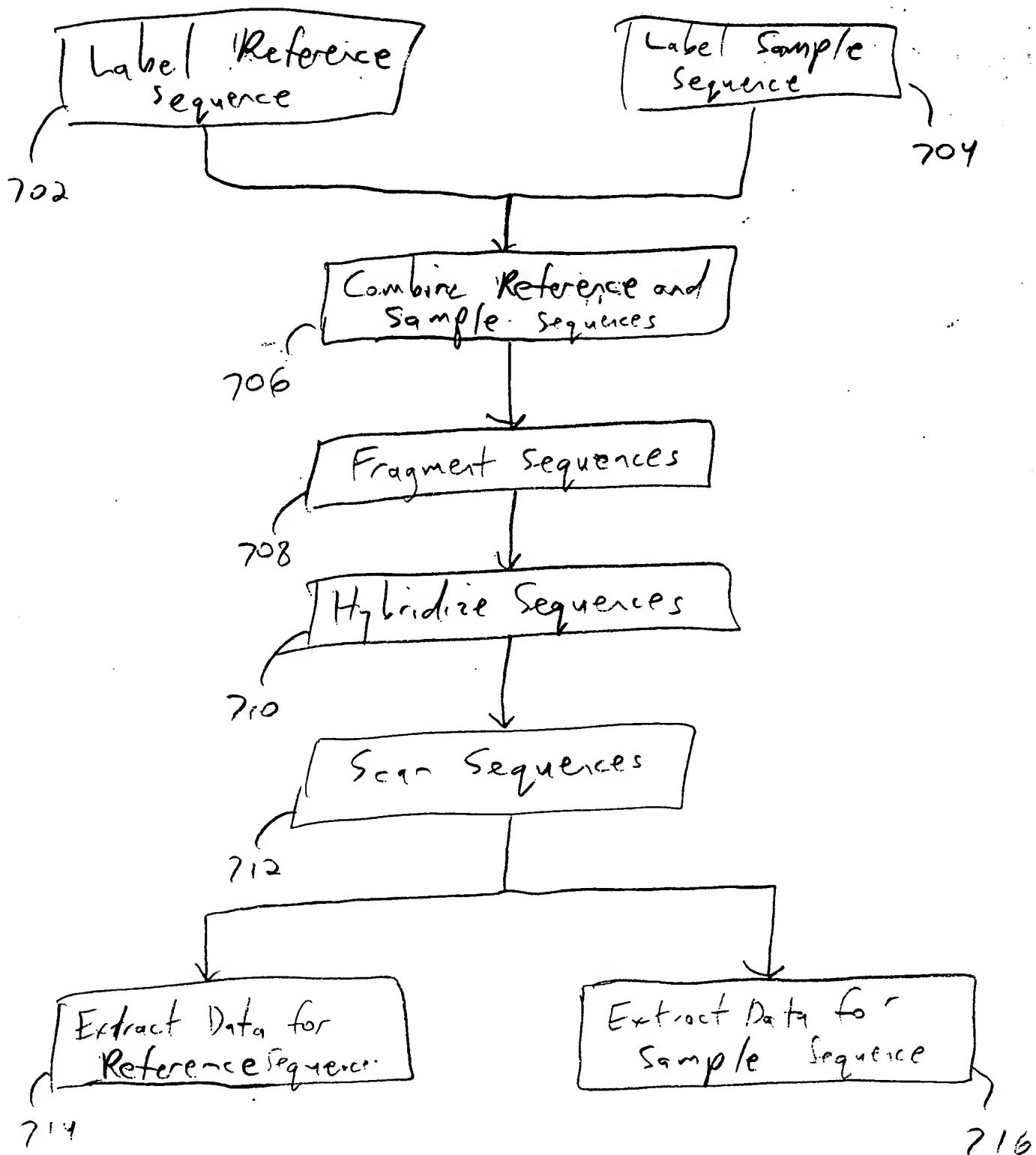


Fig. 7

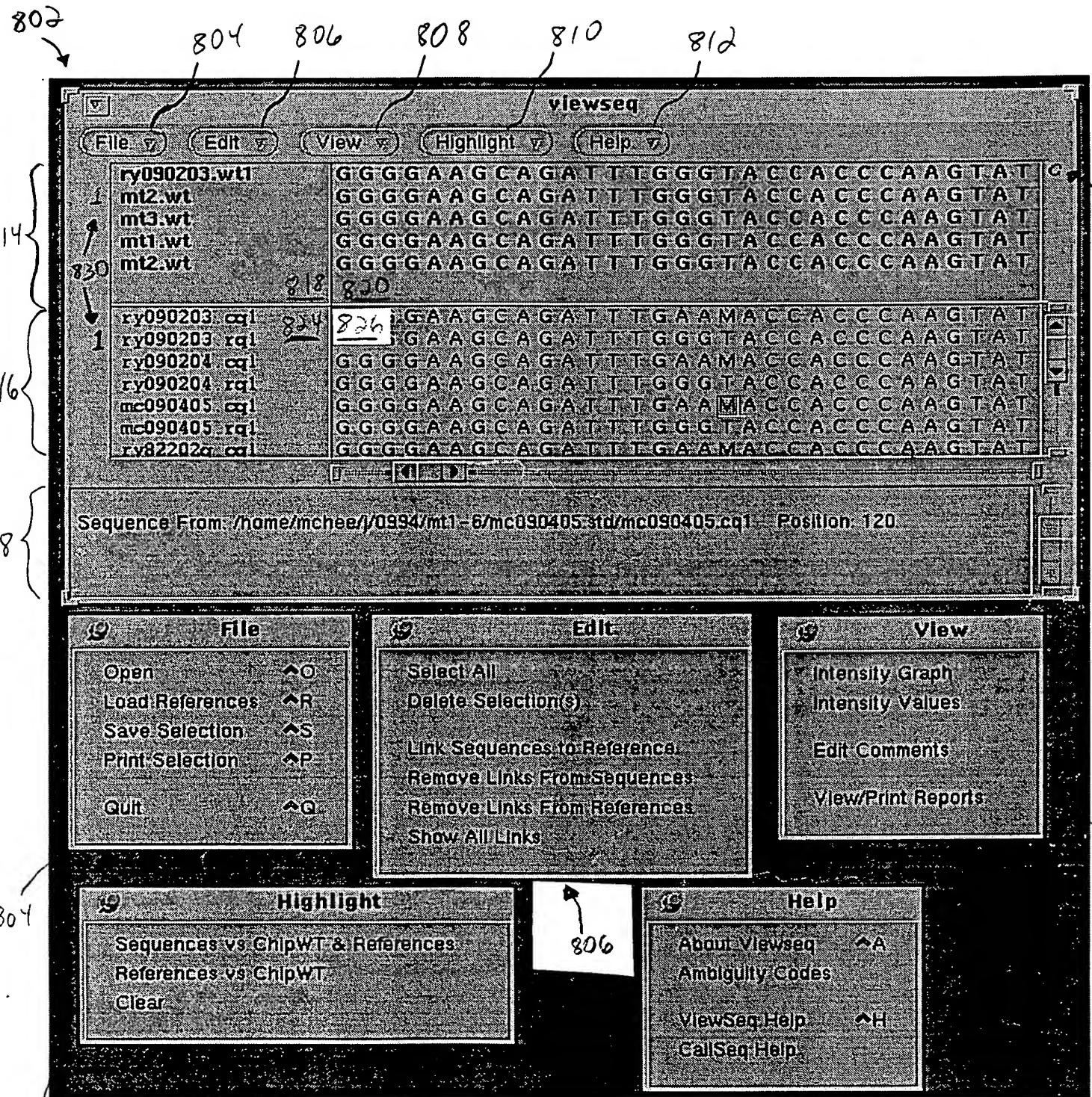
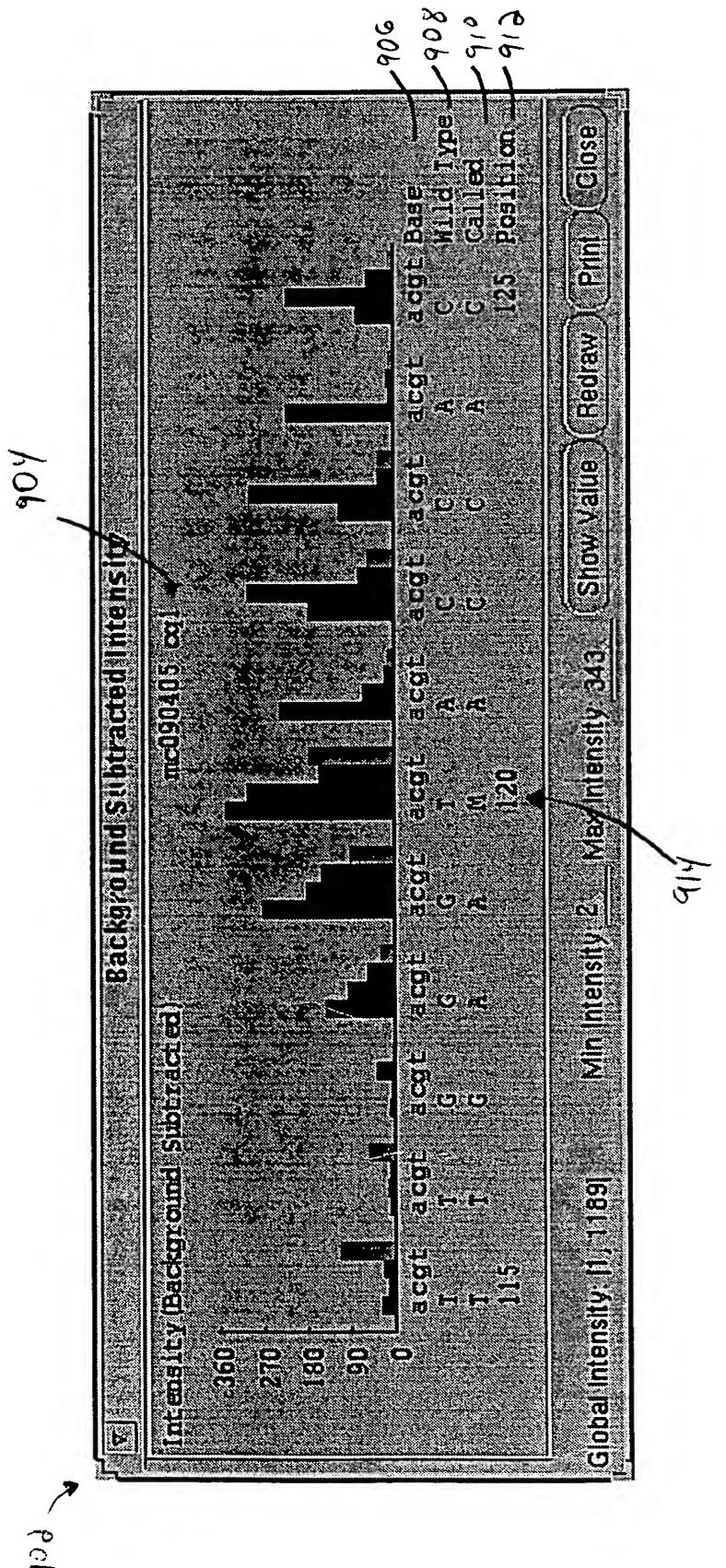
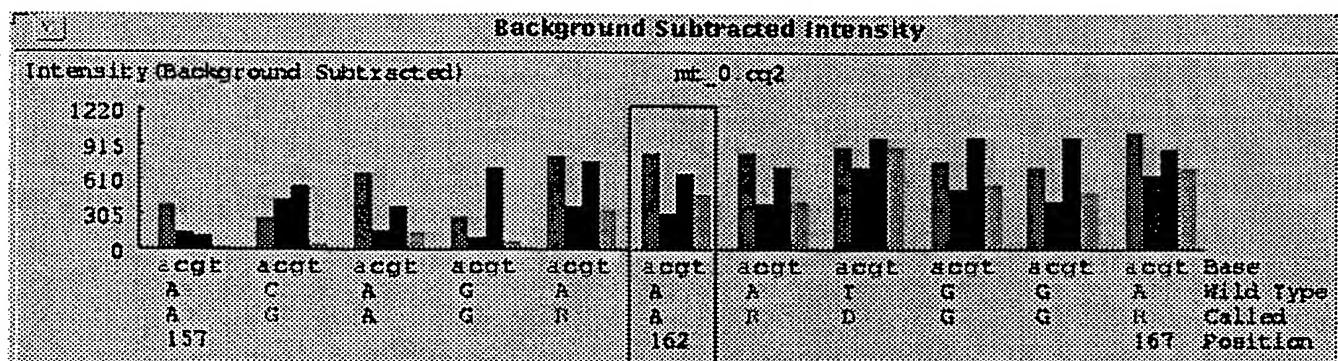


Fig. 8

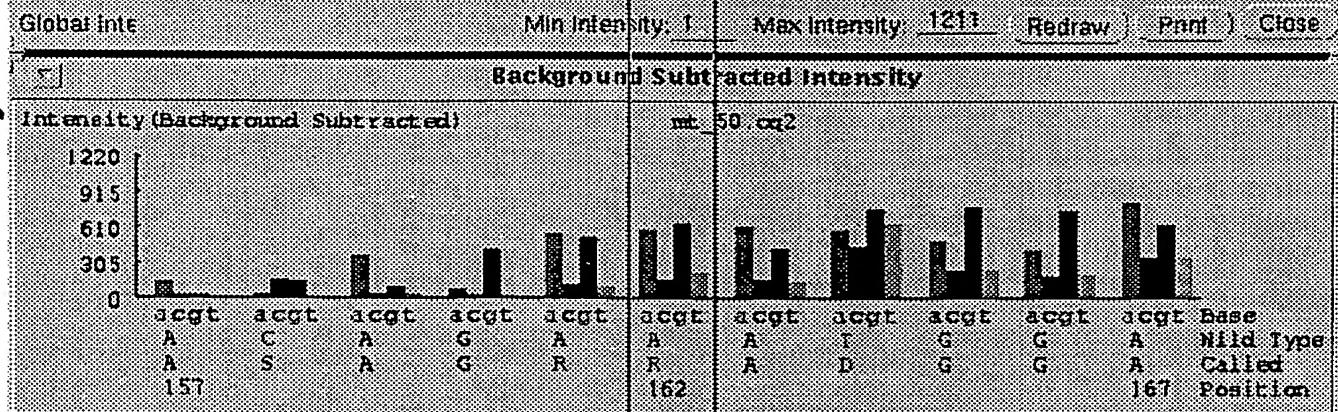


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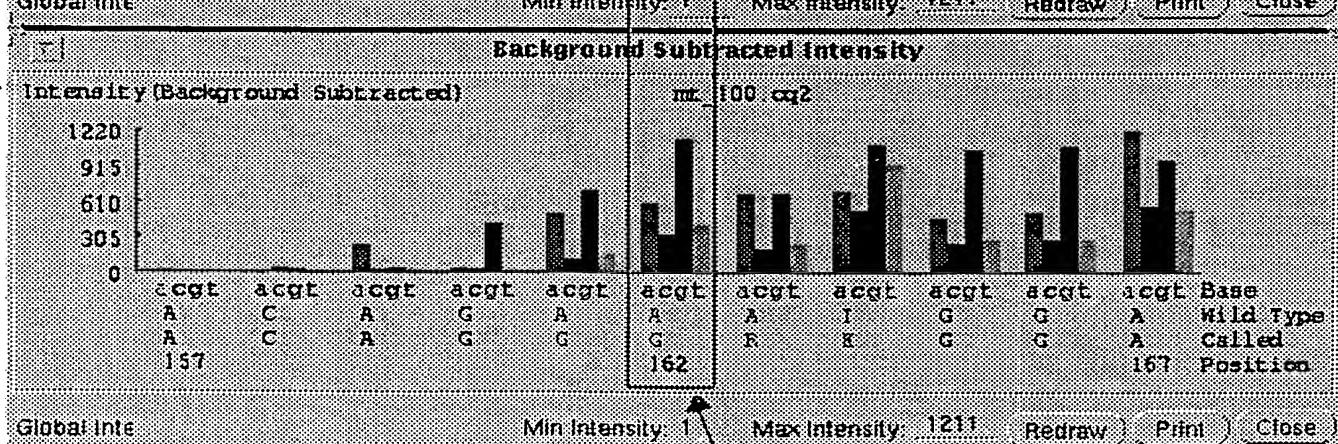
1002



1004

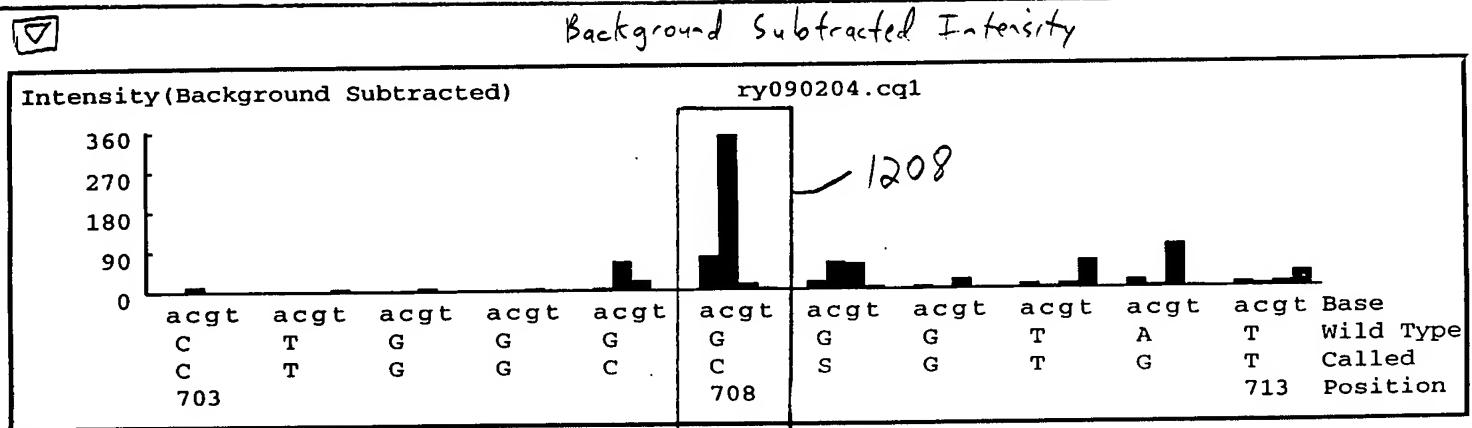


1005

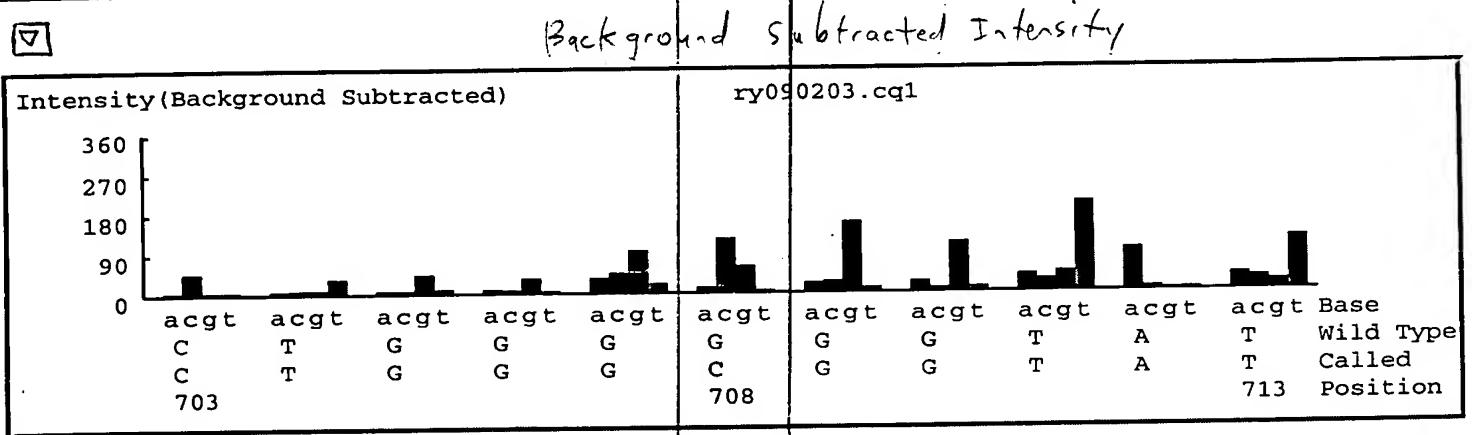


1008

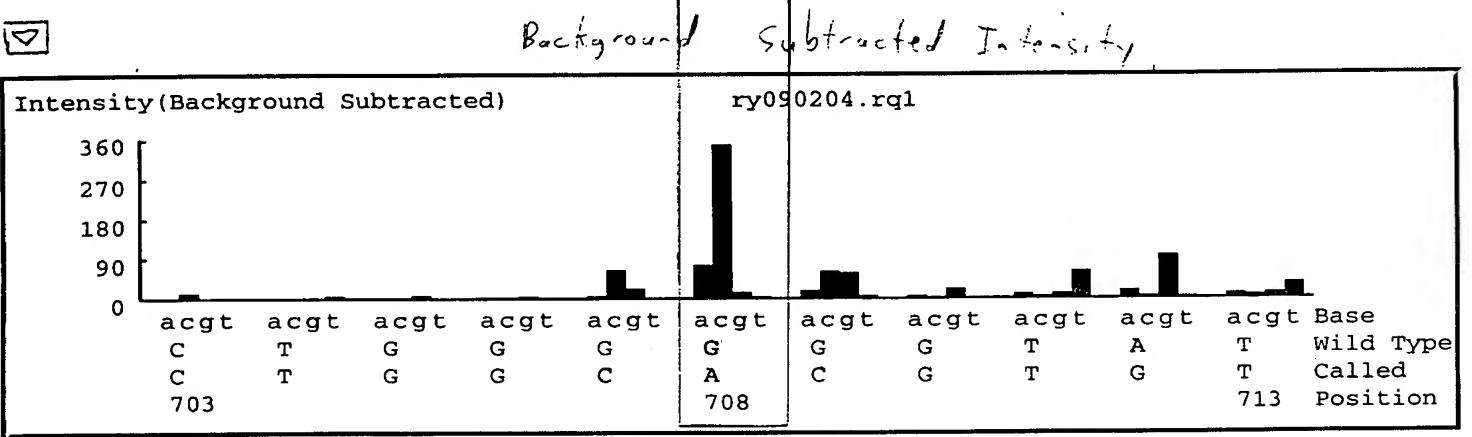
Fig. 10



Min. Intensity: 1 Max Intensity: 360



Min Intensity: 1 Max Intensity: 360



Min. Intensity: 1 Max Intensity: 360

CANCELLED

Fig. 12

Genotyping of HIV-1 Protease Gene in Treated and Untreated Patients

| Lysogeny | | Post - lysogeny | | Post - treatment | |
|----------------|-------|-----------------|-------|------------------|-------|
| Time | Conc. | Time | Conc. | Time | Conc. |
| 90 | 100 | 210 | 220 | 110 | 160 |
| | | | | | |
| ns093001 . c92 | | | | | |
| ns093001 . c93 | | | | | |
| ns093001 . c94 | | | | | |
| ns093001 . c95 | | | | | |
| ns093002 . c92 | | | | | |
| ns093002 . c93 | | | | | |
| ns093002 . c94 | | | | | |
| ns093002 . c95 | | | | | |

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